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MCMORASDUM FOR: Assistant Director/Research and Reports

From:

Assistant Director/Scientish Mitaligence

SUBJECT:

Request for Geographic Study of the USBE of Areas Most Susceptible and Const. Susceptible to Attempted Const. Underground Nuclear Tests

25X1A9a your office and confirms a conversation between of this office 22 June 1959.

- 2. As part of this Agency's support to current negotiations for a controlled nuclear test moratorium, we are required to advise the Inter-Agency Working Group on Disarmatent, as well as interested Advisory Panels of the President's Science Advisory Committee, on the support U. S. intelligence can provide in the detection and identification of concealed underground nuclear tests.
- 3. Currently an effort is being made to determine the U. S. policy position on the Soviet proposal that a quota of on-site inspections be allowed each side annually to investigate unidentified seismic events suspicious of being concealed, underground nuclear explosions.
- 4. One obvious contribution that U.S. intelligence can make to this determination, as well as to the subsequent administration of any such quote system, is an evaluation of the areas in the USSE which may tend to preclude or to facilitate itempted concealed underground nuclear tests. Such an evaluation, for example, would define and plot the following factors:
 - a. Population density
 - b. Salt domes or thick-bedded salt formations
 - c. Climate (to include perma-frost areas and ground water problems)
 - d. Vast marsh areas and other areas where nuclear test logistics may be impracticable
 - c. Mining areas and deep, abandoned sunnels
 - f. Deep lakes
 - g. Officially closed areas
 - h. Seismic and aseismic areas.

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- 5. We anticipate further study of this problem may reveal additional factors.
- 6. It is requested that a preliminary geographic presentation of such factors be prepared for use 1 July 1959, and that a more detailed study of this problem be undertaken in collaboration with this office on a long term basis.

 (ext. 2717) is available to assist your Geographic Mivision in this matter.

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HERBERT SCOVILLE, JR.